

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An antifouling detergent comprising a polymer which comprises

a monomer unit A having at least one substituent selected from the group consisting of amino groups and quaternary ammonium groups and

a monomer unit B represented by  $-\text{SO}_2-$ , and a monomer unit C derived from a monomer selected from the following group:

(i) an anionic group-containing compound selected from acrylic acid or salts thereof, methacrylic acid or salts thereof, maleic acid or salts thereof, maleic anhydride, styrene sulfonate, 2-acrylamido-2-methylpropanesulfonate, allyl sulfonate, vinyl sulfonate, methallyl sulfonate, sulfopropyl methacrylate, and mono- $\omega$ -methacryloyloxyalkyl(C1 to 12) phosphate,

(ii) an amide group-containing compound selected from acryl(or methacryl)amide, N,N-dimethylaminopropylacryl(or methacryl)amide, N,N-dimethylacryl(or methacryl)amide, N,N-dimethylaminoethylacryl(or methacryl)amide, N,N-dimethylaminomethylacryl(or methacryl)amide, N-vinyl-2-caprolactam, and N-vinyl-2-pyrrolidone,

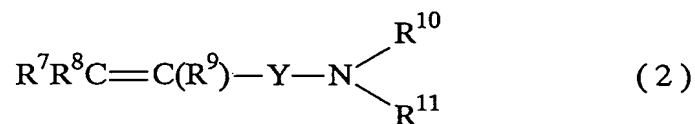
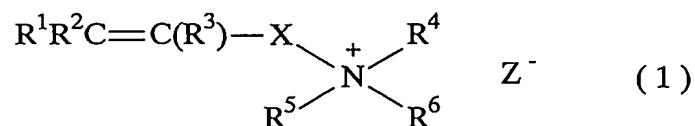
(iii) an ester group-containing compound selected from alkyl(C1 to C5) acrylate(or methacrylate), 2-hydroxyethyl acrylate(or methacrylate), N,N-dimethylaminoalkyl(C1 to 5) acrylate(or methacrylate), and vinyl acetate, and

(iv) an olefinic compound selected from ethylene, propylene, n-butylene, isobutylene, n-pentene, isoprene, 2-methyl-1-butene, n-hexene, 2-methyl-1-pentene, 3-methyl-1-pentene, 4-methyl-1-pentene, 2-ethyl-1-butene, styrene, vinyl toluene and  $\alpha$ -methylstyrene

wherein the content of the monomer unit A in the whole monomer units is 10 to 99 mol-% wherein

the molar ratio of the monomer unit B to the monomer unit A is from 0.01 to 1.

Claim 2 (Previously Presented): The antifouling detergent according to claim 1, wherein the monomer unit A is selected from a compound represented by the general formula (1) and/or a compound represented by the general formula (2):



wherein  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^7$ ,  $\text{R}^8$  and  $\text{R}^9$  each represent a hydrogen atom, a hydroxyl group or a  $\text{C}_{1-3}$  alkyl group;

X and Y are independently selected from the group consisting of a  $\text{C}_{1-12}$  alkylene group,  $-\text{COOR}^{12}-$ ,  $-\text{CONHR}^{12}-$ ,  $-\text{OCOR}^{12}-$  and  $-\text{R}^{13}-\text{OCO}-\text{R}^{12}-$  wherein  $\text{R}^{12}$  and  $\text{R}^{13}$  each represent a  $\text{C}_{1-5}$  alkylene group;

$\text{R}^4$  represents a  $\text{C}_{1-3}$  alkyl group, a  $\text{C}_{1-3}$  hydroxyalkyl group or  $\text{R}^1\text{R}^2\text{C}=\text{C}(\text{R}^3)-\text{X}-$ ;

$\text{R}^5$  represents a  $\text{C}_{1-3}$  alkyl group, a  $\text{C}_{1-3}$  hydroxyalkyl group or a benzyl group;

$\text{R}^6$  represents a  $\text{C}_{1-10}$  alkyl group optionally substituted with a hydroxy group, a carboxyl group, a sulfonate group, a sulfate group or a benzyl group, wherein when  $\text{R}^6$  comprises an alkyl group, a hydroxyalkyl group or a benzyl group,  $\text{Z}^-$  represents an anion and when  $\text{R}^6$  comprises a carboxyl group, a sulfonate group and a sulfate group,  $\text{Z}^-$  is absent, but  $\text{R}^6$  are anions;

$\text{R}^{10}$  represents a hydrogen atom, a  $\text{C}_{1-3}$  alkyl group, a  $\text{C}_{1-3}$  hydroxyalkyl group or  $\text{R}^7\text{R}^8\text{C}=\text{C}(\text{R}^9)-\text{Y}-$ ; and

$R^{11}$  represents a hydrogen atom, a  $C_{1-3}$  alkyl or a  $C_{1-3}$  hydroxyalkyl group.

Claim 3 (Previously Presented): An antifouling detergent composition comprising the antifouling detergent as claimed in claim 1 and a surfactant.

Claim 4 (Previously Presented): The antifouling detergent composition according to claim 3, wherein the surfactant is a cationic surfactant.

Claim 5 (Currently Amended): A method ~~which comprises~~ of treating a surface with the antifouling detergent ~~as claimed in claim 1~~ which comprises

a monomer unit A having at least one substituent selected from the group consisting of amino groups and quaternary ammonium groups and

a monomer unit B represented by  $-SO_2-$ , wherein the content of the monomer unit A in the whole monomer units is 10 to 99 mol-% wherein

the molar ratio of the monomer unit B to the monomer unit A is from 0.01 to 1.

Claim 6 (Previously Presented): The method according to claim 5, wherein the hard surfaces are those of a toilet bowl.

Claim 7 (Canceled).

Claim 8 (Currently Amended): A method ~~which comprises~~ of treating a surface with the antifouling detergent composition as claimed in claim 3.

Claim 9 (Previously Presented): The method according to claim 8, wherein the surface comprises the surface of a toilet bowl.

SUPPORT FOR THE AMENDMENTS

Claim 7 has been canceled without prejudice.

Claims 1, 5 and 8 are currently amended.

Claims 2-4, 6 and 9 are previously presented.

Support for the additional limitations to Claim 1 of monomer unit C is found in the specification at page 8, lines 4-27. The remaining changes are supported by the claims and specification as originally filed.

Upon entry of the amendment Claims 1-6, 8 and 9 will be active.

No new matter is believed to have been added. An action on the merits and allowance of the claims is respectfully requested.